

**PATENT APPLICATION**  
**IN THE UNITED STATES PATENT AND TRADEMARK OFFICE**

In re application of

Docket No: Q77166

YAMAGUCHI, Miho, et al.

Divisional of Appln. No.: 10/181/020

Group Art Unit: Not Yet Assigned

Confirmation No.: Not Yet Assigned

Examiner: Not Yet Assigned

Filed: August 27, 2003

For: POROUS ADHESIVE SHEET, SEMICONDUCTOR WAFER WITH POROUS  
ADHESIVE SHEET, AND METHOD OF MANUFACTURE THEREOF

**INFORMATION DISCLOSURE STATEMENT**  
**UNDER 37 CFR §§ 1.97 and 1.98**

Commissioner for Patents  
P.O. Box 1450  
Alexandria, VA 22313-1450

Sir:

In accordance with the duty of disclosure under 37 CFR §1.56, Applicant hereby notifies the U.S. Patent and Trademark Office of the documents which are listed on the attached PTO/SB/08 A & B (modified) form which are all the references of record in parent application No. 10/181,020 as cited in the International Search Report. Applicant is not submitting duplicate copies of these references but requests that they be listed on the face of any patent granted on the above application. (See 37 CFR §1.98(d)). Copies of any cited copending applications, if not previously submitted, are being submitted herewith.

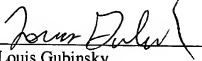
A translation of the International Preliminary Examination Report is enclosed.

The submission of the listed documents is not intended as an admission that any such document constitutes prior art against the claims of the present application. Applicant does not

INFORMATION DISCLOSURE STATEMENT  
DIVISIONAL OF APPLN. NO. 10/ 181,020

waive any right to take any action that would be appropriate to antedate or otherwise remove any  
listed document as a competent reference against the claims of the present application.

Respectfully submitted,



Louis Gubinsky  
Registration No. 24,835

SUGHRUE MION, PLLC  
Telephone: (202) 293-7060  
Facsimile: (202) 293-7860

WASHINGTON OFFICE

**23373**

CUSTOMER NUMBER

Date: August 27, 2003

Substitute for Form 1449 A &amp; B/PTO

**INFORMATION DISCLOSURE  
STATEMENT BY APPLICANT**

(use as many sheets as necessary)

Sheet 1 of 1

**Complete if Known**

Application Number	Divisional of 10/181,020
Confirmation Number	Not Yet Assigned
Filing Date	August 27, 2003
First Named Inventor	YAMAGUCHI, Miho
Art Unit	Not Yet Assigned
Examiner Name	Not Yet Assigned
Attorney Docket Number	Q77166

**U.S. PATENT DOCUMENTS**

Examiner Initials*	Cite No. <sup>1</sup>	Document Number		Publication Date MM-DD-YYYY	Name of Patentee or Applicant of Cited Document
		Number	Kind Code <sup>2</sup> (if known)		
		US			
		US			

**FOREIGN PATENT DOCUMENTS**

Examiner Initials*	Cite No. <sup>1</sup>	Foreign Patent Document			Publication Date MM-DD-YYYY	Name of Patentee or Applicant of Cited Document	Translation <sup>4</sup>
		Country Code <sup>2</sup>	Number <sup>4</sup>	Kind Code <sup>2</sup> (if known)			
		JP	63-136527	A	6/8/1988		
		JP	62-191847	U	12/5/1987		
		JP	61-90835	U	6/12/1987		
		JP	3-1945	U	1/10/1991		
		JP	4-130426	U	11/30/1992		
		JP	61-259406	A	11/17/1986		
		JP	10-284156	A	10/23/1998		
		JP	8-306415	A	11/22/1996		
		JP	6-231818	A	8/19/1994		
		JP	4-363811	A	12/16/1992		
		JP	64--19607	A	1/23/1989		
		JP	62-51111	A	3/5/1987		
		EP	560072	A2	9/15/1993		
		JP	2000-17240	A	1/18/2000		

**NON PATENT LITERATURE DOCUMENTS**

Examiner Initials*	Cite No. <sup>1</sup>	Include name of the author (in CAPITAL LETTERS), title of the article (when appropriate), title of the item (book, magazine, journal, serial, symposium, catalog, etc.), date, page(s), volume-issue number(s), publisher, city, and/or country where published.	Translation <sup>4</sup>
		Tokkyochou "Shuuchi Kanyou Gijutsushu (Secchaku)" 6/15/1984 p. 188, p. 189, pg. 235	

Examiner Signature		Date Considered	
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\*EXAMINER: Initial if reference considered, whether or not citation is in conformance with MPEP 609. Draw line through citation if not in conformance and not considered. Include copy of this form with next communication to applicant.

<sup>1</sup> Applicant's unique citation designation number (optional). <sup>2</sup> See Kind Codes of USPTO Patent Documents at [www.uspto.gov](http://www.uspto.gov), MPEP 901.04 or in the comment box of this document. <sup>3</sup> Enter Office that issued the document, by the two-letter code (WIPO Standard ST. 3). <sup>4</sup> For Japanese patent documents, the indication of the year of the reign of the Emperor must precede the serial number of the patent document. <sup>5</sup> Kind of document by the appropriate symbols as indicated on the document under WIPO Standard ST. 16 if possible. <sup>6</sup> Applicant is to indicate here if English language Translation is attached.

34  
Translation

PATENT COOPERATION TREATY

PCT

INTERNATIONAL PRELIMINARY EXAMINATION REPORT

(PCT Article 36 and Rule 70)

Applicant's or agent's file reference 09372	<b>FOR FURTHER ACTION</b> See Notification of Transmittal of International Preliminary Examination Report (Form PCT/IPEA/416)	
International application No. PCT/JP00/05553	International filing date (day/month/year) 18 August 2000 (18.08.00)	Priority date (day/month/year) 13 January 2000 (13.01.00)
International Patent Classification (IPC) or national classification and IPC C09J 7/02, H01L 23/12, H01R 11/01, 43/00, H01B 5/16		
Applicant NITTO DENKO CORPORATION		

<p>1. This international preliminary examination report has been prepared by this International Preliminary Examining Authority and is transmitted to the applicant according to Article 36.</p> <p>2. This REPORT consists of a total of <u>5</u> sheets, including this cover sheet.</p> <p><input checked="" type="checkbox"/> This report is also accompanied by ANNEXES, i.e., sheets of the description, claims and/or drawings which have been amended and are the basis for this report and/or sheets containing rectifications made before this Authority (see Rule 70.16 and Section 607 of the Administrative Instructions under the PCT).</p> <p>These annexes consist of a total of <u>2</u> sheets.</p>	
<p>3. This report contains indications relating to the following items:</p> <p>I <input checked="" type="checkbox"/> Basis of the report</p> <p>II <input type="checkbox"/> Priority</p> <p>III <input type="checkbox"/> Non-establishment of opinion with regard to novelty, inventive step and industrial applicability</p> <p>IV <input type="checkbox"/> Lack of unity of invention</p> <p>V <input checked="" type="checkbox"/> Reasoned statement under Article 35(2) with regard to novelty, inventive step or industrial applicability; citations and explanations supporting such statement</p> <p>VI <input checked="" type="checkbox"/> Certain documents cited</p> <p>VII <input type="checkbox"/> Certain defects in the international application</p> <p>VIII <input type="checkbox"/> Certain observations on the international application</p>	

Date of submission of the demand 17 May 2001 (17.05.01)	Date of completion of this report 12 February 2002 (12.02.2002)
Name and mailing address of the IPEA/JP	Authorized officer
Facsimile No.	Telephone No.

## INTERNATIONAL PRELIMINARY EXAMINATION REPORT

International application No.

PCT/JP00/05553

## I. Basis of the report

## 1. With regard to the elements of the international application:\*

- ☐ the international application as originally filed
- ☒ the description:  
pages \_\_\_\_\_ 1-30 \_\_\_\_\_, as originally filed  
pages \_\_\_\_\_, filed with the demand  
pages \_\_\_\_\_, filed with the letter of \_\_\_\_\_
- ☒ the claims:  
pages \_\_\_\_\_ 2,12,13 \_\_\_\_\_, as originally filed  
pages \_\_\_\_\_ 1,4-6,9-11 \_\_\_\_\_, as amended (together with any statement under Article 19  
pages \_\_\_\_\_, filed with the demand  
pages \_\_\_\_\_ 7 \_\_\_\_\_, filed with the letter of \_\_\_\_\_ 06 August 2001 (06.08.2001)
- ☒ the drawings:  
pages \_\_\_\_\_ 1-6 \_\_\_\_\_, as originally filed  
pages \_\_\_\_\_, filed with the demand  
pages \_\_\_\_\_, filed with the letter of \_\_\_\_\_
- ☐ the sequence listing part of the description:  
pages \_\_\_\_\_, as originally filed  
pages \_\_\_\_\_, filed with the demand  
pages \_\_\_\_\_, filed with the letter of \_\_\_\_\_

## 2. With regard to the language, all the elements marked above were available or furnished to this Authority in the language in which the international application was filed, unless otherwise indicated under this item.

These elements were available or furnished to this Authority in the following language \_\_\_\_\_ which is:

- ☐ the language of a translation furnished for the purposes of international search (under Rule 23.1(b)).
- ☐ the language of publication of the international application (under Rule 48.3(b)).
- ☐ the language of the translation furnished for the purposes of international preliminary examination (under Rule 55.2 and/or 55.3).

## 3. With regard to any nucleotide and/or amino acid sequence disclosed in the international application, the international preliminary examination was carried out on the basis of the sequence listing:

- ☐ contained in the international application in written form.
- ☐ filed together with the international application in computer readable form.
- ☐ furnished subsequently to this Authority in written form.
- ☐ furnished subsequently to this Authority in computer readable form.
- ☐ The statement that the subsequently furnished written sequence listing does not go beyond the disclosure in the international application as filed has been furnished.
- ☐ The statement that the information recorded in computer readable form is identical to the written sequence listing has been furnished.

4. ☒ The amendments have resulted in the cancellation of:

- ☐ the description, pages \_\_\_\_\_
- ☒ the claims, Nos. \_\_\_\_\_ 3,8 \_\_\_\_\_
- ☐ the drawings, sheets/fig \_\_\_\_\_

5. ☐ This report has been established as if (some of) the amendments had not been made, since they have been considered to go beyond the disclosure as filed, as indicated in the Supplemental Box (Rule 70.2(c)).\*\*

\* Replacement sheets which have been furnished to the receiving Office in response to an invitation under Article 14 are referred to in this report as "originally filed" and are not annexed to this report since they do not contain amendments (Rule 70.16 and 70.17).

\*\* Any replacement sheet containing such amendments must be referred to under item 1 and annexed to this report.

## INTERNATIONAL PRELIMINARY EXAMINATION REPORT

International application No.

PCT/JP 00/05553

## V. Reasoned statement under Article 35(2) with regard to novelty, inventive step or industrial applicability; citations and explanations supporting such statement

## 1. Statement

Novelty (N)	Claims	1, 2, 4-7, 9-13	YES
	Claims		NO
Inventive step (IS)	Claims	1, 2, 4-7, 9-13	YES
	Claims		NO
Industrial applicability (IA)	Claims	1, 2, 4-7, 9-13	YES
	Claims		NO

## 2. Citations and explanations

- Document 1: Japanese Patent Office, "Shuuchi kanyou gijutsushu (Setchaku)" 15 June 1984, p. 188, p. 235
- Document 2: JP, 63-136527, A (NEC Corp.), 8 June 1988; claims (Family: none)
- Document 3: JP, 62-191847, U (Seiko Epson Corp.), 5 December 1987; claims (Family: none)
- Document 5: JP, 61-90835, U (NEC Corp.), 12 June 1986; claims (Family: none)
- Document 6: JP, 3-1945, U (NEC Corp.), 10 January 1991; claims (Family: none)
- Document 7: JP, 4-130426, U (Nitto Electric Co., Ltd.), 30 November 1992; claims (Family: none)
- Document 8: JP, 61-259406, A (Nitto Electric Co., Ltd.), 17 November 1986; claims (Family: none)
- Document 9: JP, 10-284156, A (Nitto Electric Co., Ltd.), 23 October 1998; claims and paragraph [0048] (Family: none)
- Document 10: JP, 8-306415, A (Nitto Electric Co., Ltd.), 22 November 1996; claims and Fig. 3 (Family: none)
- Document 11: JP, 6-231818, A (Nitto Electric Co., Ltd.), 19 August 1994; claims (Family: none)
- Document 12: JP, 4-363811, A (Nitto Electric Co., Ltd.),

## INTERNATIONAL PRELIMINARY EXAMINATION REPORT

International application No.  
PCT/JP 00/05553

16 December 1992; claims (Family: none)

Document 13: JP, 64-19607, A (Nitto Electric Co., Ltd.),  
23 January 1989; claims (Family: none)

Document 14: JP, 62-51111, A (Nitto Electric Co., Ltd.), 5  
March 1987; claims (Family: none),

Document 15: EP, 560072, A2 (Nitto Denko Corp.) 15  
September 1993; Claims & JP, 5-258789 & JP,  
5-258790 & US, 5438223, A

The inventions set forth in Claims 1, 2, 4-6, 12 and  
13 are novel and involve an inventive step.

None of Documents 1-3 or 5-15, cited in the  
international search report, discloses a porous adhesive  
sheet which is an adhesive sheet having a plurality of  
through holes running substantially parallel to one  
another in the direction of the thickness of the organic  
film, with layers of a certain organic material being  
formed around the aforementioned through holes, the fact  
that said porous adhesive sheet has a layer of a certain  
readily adhesive material, a process for producing said  
porous adhesive sheet, semiconductor wafers fitted with a  
porous adhesive sheet formed to a certain shape, or a  
process for producing semiconductor wafers fitted with a  
porous adhesive sheet using said porous adhesive sheet;  
and these inventions are not obvious to a person skilled  
in the art.

## INTERNATIONAL PRELIMINARY EXAMINATION REPORT

International application No.

PCT/JP00/05553

## VI. Certain documents cited

## 1. Certain published documents (Rule 70.10)

<u>Application No. Patent No.</u>	<u>Publication date (day/month/year)</u>	<u>Filing date (day/month/year)</u>	<u>Priority date (valid claim) (day/month/year)</u>
JP 2000-17240 A	18 January 2000 (18.01.2000)	02 July 1998 (02.07.1998)	
E,X			

## 2. Non-written disclosures (Rule 70.9)

<u>Kind of non-written disclosure</u>	<u>Date of non-written disclosure (day/month/year)</u>	<u>Date of written disclosure referring to non-written disclosure (day/month/year)</u>